

# Global Photonic IC Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

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## Abstracts

### Summary

A photonic integrated circuit (PIC) or integrated optical circuit is a device that integrates multiple (at least two) photonic functions and as such is similar to an electronic integrated circuit. The major difference between the two is that a photonic integrated circuit provides functions for information signals imposed on optical wavelengths typically in the visible spectrum or near infrared 850 nm-1650 nm.

According to APO Research, The global Photonic IC market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for Photonic IC is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Photonic IC is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Photonic IC is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Photonic IC is estimated to increase from \$ million in 2024 to reach \$

million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global manufacturers of Photonic IC include Infinera, Alcatel-Lucent, Avago, NeoPhotonics, HUAWEI, Cisco, Ciena, Intel and Oclaro, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

In terms of production side, this report researches the Photonic IC production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Photonic IC by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Photonic IC, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Photonic IC, also provides the consumption of main regions and countries. Of the upcoming market potential for Photonic IC, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Photonic IC sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Photonic IC market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Photonic IC sales, projected growth trends, production technology, application and end-user industry.

Photonic IC segment by Company

Infinera

Alcatel-Lucent

Avago

NeoPhotonics

HUAWEI

Cisco

Ciena

Intel

Oclaro

JDS Uniphase

Finisar

Luxtera

Mellanox

OneChip

### Photonic IC segment by Type

Monolithic Integration

Hybrid Integration

Module Integration

### Photonic IC segment by Application

Optical Communication

Sensing

Biophotonics

Others

## Photonic IC segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.

5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Photonic IC market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Photonic IC and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Photonic IC.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

### Chapter Outline

Chapter 1: Provides an overview of the Photonic IC market, including product definition,

global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Photonic IC industry.

Chapter 3: Detailed analysis of Photonic IC market competition landscape. Including Photonic IC manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Photonic IC by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of Photonic IC in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.

## Contents

### **1 MARKET OVERVIEW**

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
  - 1.2.1 Global Photonic IC Production Value Estimates and Forecasts (2019-2030)
  - 1.2.2 Global Photonic IC Production Capacity Estimates and Forecasts (2019-2030)
  - 1.2.3 Global Photonic IC Production Estimates and Forecasts (2019-2030)
  - 1.2.4 Global Photonic IC Market Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

### **2 GLOBAL PHOTONIC IC MARKET DYNAMICS**

- 2.1 Photonic IC Industry Trends
- 2.2 Photonic IC Industry Drivers
- 2.3 Photonic IC Industry Opportunities and Challenges
- 2.4 Photonic IC Industry Restraints

### **3 PHOTONIC IC MARKET BY MANUFACTURERS**

- 3.1 Global Photonic IC Production Value by Manufacturers (2019-2024)
- 3.2 Global Photonic IC Production by Manufacturers (2019-2024)
- 3.3 Global Photonic IC Average Price by Manufacturers (2019-2024)
- 3.4 Global Photonic IC Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Photonic IC Key Manufacturers Manufacturing Sites & Headquarters
- 3.6 Global Photonic IC Manufacturers, Product Type & Application
- 3.7 Global Photonic IC Manufacturers Commercialization Time
- 3.8 Market Competitive Analysis
  - 3.8.1 Global Photonic IC Market CR5 and HHI
  - 3.8.2 Global Top 5 and 10 Photonic IC Players Market Share by Production Value in 2023
  - 3.8.3 2023 Photonic IC Tier 1, Tier 2, and Tier

### **4 PHOTONIC IC MARKET BY TYPE**

- 4.1 Photonic IC Type Introduction
  - 4.1.1 Monolithic Integration



- 4.1.2 Hybrid Integration
- 4.1.3 Module Integration
- 4.2 Global Photonic IC Production by Type
  - 4.2.1 Global Photonic IC Production by Type (2019 VS 2023 VS 2030)
  - 4.2.2 Global Photonic IC Production by Type (2019-2030)
  - 4.2.3 Global Photonic IC Production Market Share by Type (2019-2030)
- 4.3 Global Photonic IC Production Value by Type
  - 4.3.1 Global Photonic IC Production Value by Type (2019 VS 2023 VS 2030)
  - 4.3.2 Global Photonic IC Production Value by Type (2019-2030)
  - 4.3.3 Global Photonic IC Production Value Market Share by Type (2019-2030)

## **5 PHOTONIC IC MARKET BY APPLICATION**

- 5.1 Photonic IC Application Introduction
  - 5.1.1 Optical Communication
  - 5.1.2 Sensing
  - 5.1.3 Biophotonics
  - 5.1.4 Others
- 5.2 Global Photonic IC Production by Application
  - 5.2.1 Global Photonic IC Production by Application (2019 VS 2023 VS 2030)
  - 5.2.2 Global Photonic IC Production by Application (2019-2030)
  - 5.2.3 Global Photonic IC Production Market Share by Application (2019-2030)
- 5.3 Global Photonic IC Production Value by Application
  - 5.3.1 Global Photonic IC Production Value by Application (2019 VS 2023 VS 2030)
  - 5.3.2 Global Photonic IC Production Value by Application (2019-2030)
  - 5.3.3 Global Photonic IC Production Value Market Share by Application (2019-2030)

## **6 COMPANY PROFILES**

- 6.1 Infinera
  - 6.1.1 Infinera Company Information
  - 6.1.2 Infinera Business Overview
  - 6.1.3 Infinera Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.1.4 Infinera Photonic IC Product Portfolio
  - 6.1.5 Infinera Recent Developments
- 6.2 Alcatel-Lucent
  - 6.2.1 Alcatel-Lucent Company Information
  - 6.2.2 Alcatel-Lucent Business Overview
  - 6.2.3 Alcatel-Lucent Photonic IC Production, Value and Gross Margin (2019-2024)

- 6.2.4 Alcatel-Lucent Photonic IC Product Portfolio
- 6.2.5 Alcatel-Lucent Recent Developments
- 6.3 Avago
  - 6.3.1 Avago Comapny Information
  - 6.3.2 Avago Business Overview
  - 6.3.3 Avago Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.3.4 Avago Photonic IC Product Portfolio
  - 6.3.5 Avago Recent Developments
- 6.4 NeoPhotonics
  - 6.4.1 NeoPhotonics Comapny Information
  - 6.4.2 NeoPhotonics Business Overview
  - 6.4.3 NeoPhotonics Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.4.4 NeoPhotonics Photonic IC Product Portfolio
  - 6.4.5 NeoPhotonics Recent Developments
- 6.5 HUAWEI
  - 6.5.1 HUAWEI Comapny Information
  - 6.5.2 HUAWEI Business Overview
  - 6.5.3 HUAWEI Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.5.4 HUAWEI Photonic IC Product Portfolio
  - 6.5.5 HUAWEI Recent Developments
- 6.6 Cisco
  - 6.6.1 Cisco Comapny Information
  - 6.6.2 Cisco Business Overview
  - 6.6.3 Cisco Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.6.4 Cisco Photonic IC Product Portfolio
  - 6.6.5 Cisco Recent Developments
- 6.7 Ciena
  - 6.7.1 Ciena Comapny Information
  - 6.7.2 Ciena Business Overview
  - 6.7.3 Ciena Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.7.4 Ciena Photonic IC Product Portfolio
  - 6.7.5 Ciena Recent Developments
- 6.8 Intel
  - 6.8.1 Intel Comapny Information
  - 6.8.2 Intel Business Overview
  - 6.8.3 Intel Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.8.4 Intel Photonic IC Product Portfolio
  - 6.8.5 Intel Recent Developments
- 6.9 Oclaro

- 6.9.1 Oclaro Company Information
- 6.9.2 Oclaro Business Overview
- 6.9.3 Oclaro Photonic IC Production, Value and Gross Margin (2019-2024)
- 6.9.4 Oclaro Photonic IC Product Portfolio
- 6.9.5 Oclaro Recent Developments
- 6.10 JDS Uniphase
  - 6.10.1 JDS Uniphase Company Information
  - 6.10.2 JDS Uniphase Business Overview
  - 6.10.3 JDS Uniphase Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.10.4 JDS Uniphase Photonic IC Product Portfolio
  - 6.10.5 JDS Uniphase Recent Developments
- 6.11 Finisar
  - 6.11.1 Finisar Company Information
  - 6.11.2 Finisar Business Overview
  - 6.11.3 Finisar Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.11.4 Finisar Photonic IC Product Portfolio
  - 6.11.5 Finisar Recent Developments
- 6.12 Luxtera
  - 6.12.1 Luxtera Company Information
  - 6.12.2 Luxtera Business Overview
  - 6.12.3 Luxtera Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.12.4 Luxtera Photonic IC Product Portfolio
  - 6.12.5 Luxtera Recent Developments
- 6.13 Mellanox
  - 6.13.1 Mellanox Company Information
  - 6.13.2 Mellanox Business Overview
  - 6.13.3 Mellanox Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.13.4 Mellanox Photonic IC Product Portfolio
  - 6.13.5 Mellanox Recent Developments
- 6.14 OneChip
  - 6.14.1 OneChip Company Information
  - 6.14.2 OneChip Business Overview
  - 6.14.3 OneChip Photonic IC Production, Value and Gross Margin (2019-2024)
  - 6.14.4 OneChip Photonic IC Product Portfolio
  - 6.14.5 OneChip Recent Developments

## **7 GLOBAL PHOTONIC IC PRODUCTION BY REGION**

### 7.1 Global Photonic IC Production by Region: 2019 VS 2023 VS 2030

- 7.2 Global Photonic IC Production by Region (2019-2030)
  - 7.2.1 Global Photonic IC Production by Region: 2019-2024
  - 7.2.2 Global Photonic IC Production by Region (2025-2030)
- 7.3 Global Photonic IC Production by Region: 2019 VS 2023 VS 2030
- 7.4 Global Photonic IC Production Value by Region (2019-2030)
  - 7.4.1 Global Photonic IC Production Value by Region: 2019-2024
  - 7.4.2 Global Photonic IC Production Value by Region (2025-2030)
- 7.5 Global Photonic IC Market Price Analysis by Region (2019-2024)
- 7.6 Regional Production Value Trends (2019-2030)
  - 7.6.1 North America Photonic IC Production Value (2019-2030)
  - 7.6.2 Europe Photonic IC Production Value (2019-2030)
  - 7.6.3 Asia-Pacific Photonic IC Production Value (2019-2030)
  - 7.6.4 Latin America Photonic IC Production Value (2019-2030)
  - 7.6.5 Middle East & Africa Photonic IC Production Value (2019-2030)

## **8 GLOBAL PHOTONIC IC CONSUMPTION BY REGION**

- 8.1 Global Photonic IC Consumption by Region: 2019 VS 2023 VS 2030
- 8.2 Global Photonic IC Consumption by Region (2019-2030)
  - 8.2.1 Global Photonic IC Consumption by Region (2019-2024)
  - 8.2.2 Global Photonic IC Consumption by Region (2025-2030)
- 8.3 North America
  - 8.3.1 North America Photonic IC Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
  - 8.3.2 North America Photonic IC Consumption by Country (2019-2030)
  - 8.3.3 U.S.
  - 8.3.4 Canada
- 8.4 Europe
  - 8.4.1 Europe Photonic IC Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
  - 8.4.2 Europe Photonic IC Consumption by Country (2019-2030)
  - 8.4.3 Germany
  - 8.4.4 France
  - 8.4.5 U.K.
  - 8.4.6 Italy
  - 8.4.7 Netherlands
- 8.5 Asia Pacific
  - 8.5.1 Asia Pacific Photonic IC Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

## 8.5.2 Asia Pacific Photonic IC Consumption by Country (2019-2030)

### 8.5.3 China

### 8.5.4 Japan

### 8.5.5 South Korea

### 8.5.6 Southeast Asia

### 8.5.7 India

### 8.5.8 Australia

## 8.6 LAMEA

### 8.6.1 LAMEA Photonic IC Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

### 8.6.2 LAMEA Photonic IC Consumption by Country (2019-2030)

### 8.6.3 Mexico

### 8.6.4 Brazil

### 8.6.5 Turkey

### 8.6.6 GCC Countries

## 9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

### 9.1 Photonic IC Value Chain Analysis

#### 9.1.1 Photonic IC Key Raw Materials

#### 9.1.2 Raw Materials Key Suppliers

#### 9.1.3 Manufacturing Cost Structure

#### 9.1.4 Photonic IC Production Mode & Process

### 9.2 Photonic IC Sales Channels Analysis

#### 9.2.1 Direct Comparison with Distribution Share

#### 9.2.2 Photonic IC Distributors

#### 9.2.3 Photonic IC Customers

## 10 CONCLUDING INSIGHTS

## 11 APPENDIX

### 11.1 Reasons for Doing This Study

### 11.2 Research Methodology

### 11.3 Research Process

### 11.4 Authors List of This Report

### 11.5 Data Source

#### 11.5.1 Secondary Sources

#### 11.5.2 Primary Sources

## 11.6 Disclaimer

## List Of Tables

### LIST OF TABLES

- Table 1. Photonic IC Industry Trends
- Table 2. Photonic IC Industry Drivers
- Table 3. Photonic IC Industry Opportunities and Challenges
- Table 4. Photonic IC Industry Restraints
- Table 5. Global Photonic IC Production Value by Manufacturers (US\$ Million) & (2019-2024)
- Table 6. Global Photonic IC Production Value Market Share by Manufacturers (2019-2024)
- Table 7. Global Photonic IC Production by Manufacturers (K Units) & (2019-2024)
- Table 8. Global Photonic IC Production Market Share by Manufacturers
- Table 9. Global Photonic IC Average Price (USD/Unit) of Manufacturers (2019-2024)
- Table 10. Global Photonic IC Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- Table 11. Global Photonic IC Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- Table 12. Global Photonic IC Key Manufacturers Manufacturing Sites & Headquarters
- Table 13. Global Photonic IC Manufacturers, Product Type & Application
- Table 14. Global Photonic IC Manufacturers Commercialization Time
- Table 15. Global Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 16. Global Photonic IC by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2023)
- Table 17. Major Manufacturers of Monolithic Integration
- Table 18. Major Manufacturers of Hybrid Integration
- Table 19. Major Manufacturers of Module Integration
- Table 20. Global Photonic IC Production by type 2019 VS 2023 VS 2030 (K Units)
- Table 21. Global Photonic IC Production by type (2019-2024) & (K Units)
- Table 22. Global Photonic IC Production by type (2025-2030) & (K Units)
- Table 23. Global Photonic IC Production Market Share by type (2019-2024)
- Table 24. Global Photonic IC Production Market Share by type (2025-2030)
- Table 25. Global Photonic IC Production Value by type 2019 VS 2023 VS 2030 (K Units)
- Table 26. Global Photonic IC Production Value by type (2019-2024) & (K Units)
- Table 27. Global Photonic IC Production Value by type (2025-2030) & (K Units)
- Table 28. Global Photonic IC Production Value Market Share by type (2019-2024)
- Table 29. Global Photonic IC Production Value Market Share by type (2025-2030)
- Table 30. Major Manufacturers of Optical Communication
- Table 31. Major Manufacturers of Sensing

Table 32. Major Manufacturers of Biophotonics

Table 33. Major Manufacturers of Others

Table 34. Global Photonic IC Production by application 2019 VS 2023 VS 2030 (K Units)

Table 35. Global Photonic IC Production by application (2019-2024) & (K Units)

Table 36. Global Photonic IC Production by application (2025-2030) & (K Units)

Table 37. Global Photonic IC Production Market Share by application (2019-2024)

Table 38. Global Photonic IC Production Market Share by application (2025-2030)

Table 39. Global Photonic IC Production Value by application 2019 VS 2023 VS 2030 (K Units)

Table 40. Global Photonic IC Production Value by application (2019-2024) & (K Units)

Table 41. Global Photonic IC Production Value by application (2025-2030) & (K Units)

Table 42. Global Photonic IC Production Value Market Share by application (2019-2024)

Table 43. Global Photonic IC Production Value Market Share by application (2025-2030)

Table 44. Infinera Company Information

Table 45. Infinera Business Overview

Table 46. Infinera Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 47. Infinera Photonic IC Product Portfolio

Table 48. Infinera Recent Development

Table 49. Alcatel-Lucent Company Information

Table 50. Alcatel-Lucent Business Overview

Table 51. Alcatel-Lucent Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 52. Alcatel-Lucent Photonic IC Product Portfolio

Table 53. Alcatel-Lucent Recent Development

Table 54. Avago Company Information

Table 55. Avago Business Overview

Table 56. Avago Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 57. Avago Photonic IC Product Portfolio

Table 58. Avago Recent Development

Table 59. NeoPhotonics Company Information

Table 60. NeoPhotonics Business Overview

Table 61. NeoPhotonics Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)

Table 62. NeoPhotonics Photonic IC Product Portfolio



- Table 63. NeoPhotonics Recent Development
- Table 64. HUAWEI Company Information
- Table 65. HUAWEI Business Overview
- Table 66. HUAWEI Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 67. HUAWEI Photonic IC Product Portfolio
- Table 68. HUAWEI Recent Development
- Table 69. Cisco Company Information
- Table 70. Cisco Business Overview
- Table 71. Cisco Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 72. Cisco Photonic IC Product Portfolio
- Table 73. Cisco Recent Development
- Table 74. Ciena Company Information
- Table 75. Ciena Business Overview
- Table 76. Ciena Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 77. Ciena Photonic IC Product Portfolio
- Table 78. Ciena Recent Development
- Table 79. Intel Company Information
- Table 80. Intel Business Overview
- Table 81. Intel Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 82. Intel Photonic IC Product Portfolio
- Table 83. Intel Recent Development
- Table 84. Oclaro Company Information
- Table 85. Oclaro Business Overview
- Table 86. Oclaro Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 87. Oclaro Photonic IC Product Portfolio
- Table 88. Oclaro Recent Development
- Table 89. JDS Uniphase Company Information
- Table 90. JDS Uniphase Business Overview
- Table 91. JDS Uniphase Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 92. JDS Uniphase Photonic IC Product Portfolio
- Table 93. JDS Uniphase Recent Development
- Table 94. Finisar Company Information
- Table 95. Finisar Business Overview

- Table 96. Finisar Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 97. Finisar Photonic IC Product Portfolio
- Table 98. Finisar Recent Development
- Table 99. Luxtera Company Information
- Table 100. Luxtera Business Overview
- Table 101. Luxtera Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 102. Luxtera Photonic IC Product Portfolio
- Table 103. Luxtera Recent Development
- Table 104. Mellanox Company Information
- Table 105. Mellanox Business Overview
- Table 106. Mellanox Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 107. Mellanox Photonic IC Product Portfolio
- Table 108. Mellanox Recent Development
- Table 109. OneChip Company Information
- Table 110. OneChip Business Overview
- Table 111. OneChip Photonic IC Production (K Units), Value (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 112. OneChip Photonic IC Product Portfolio
- Table 113. OneChip Recent Development
- Table 114. Global Photonic IC Production by Region: 2019 VS 2023 VS 2030 (K Units)
- Table 115. Global Photonic IC Production by Region (2019-2024) & (K Units)
- Table 116. Global Photonic IC Production Market Share by Region (2019-2024)
- Table 117. Global Photonic IC Production Forecast by Region (2025-2030) & (K Units)
- Table 118. Global Photonic IC Production Market Share Forecast by Region (2025-2030)
- Table 119. Global Photonic IC Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)
- Table 120. Global Photonic IC Production Value by Region (2019-2024) & (US\$ Million)
- Table 121. Global Photonic IC Production Value Forecast by Region (2025-2030) & (US\$ Million)
- Table 122. Global Photonic IC Production Value Share Forecast by Region: (2025-2030) & (US\$ Million)
- Table 123. Global Photonic IC Market Average Price (USD/Unit) by Region (2019-2024)
- Table 124. Global Photonic IC Market Average Price (USD/Unit) by Region (2025-2030)
- Table 125. Global Photonic IC Consumption by Region: 2019 VS 2023 VS 2030 (K Units)

Table 126. Global Photonic IC Consumption by Region (2019-2024) & (K Units)

Table 127. Global Photonic IC Consumption Market Share by Region (2019-2024)

Table 128. Global Photonic IC Consumption Forecasted by Region (2025-2030) & (K Units)

Table 129. Global Photonic IC Consumption Forecasted Market Share by Region (2025-2030)

Table 130. North America Photonic IC Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 131. North America Photonic IC Consumption by Country (2019-2024) & (K Units)

Table 132. North America Photonic IC Consumption by Country (2025-2030) & (K Units)

Table 133. Europe Photonic IC Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 134. Europe Photonic IC Consumption by Country (2019-2024) & (K Units)

Table 135. Europe Photonic IC Consumption by Country (2025-2030) & (K Units)

Table 136. Asia Pacific Photonic IC Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 137. Asia Pacific Photonic IC Consumption by Country (2019-2024) & (K Units)

Table 138. Asia Pacific Photonic IC Consumption by Country (2025-2030) & (K Units)

Table 139. LAMEA Photonic IC Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (K Units)

Table 140. LAMEA Photonic IC Consumption by Country (2019-2024) & (K Units)

Table 141. LAMEA Photonic IC Consumption by Country (2025-2030) & (K Units)

Table 142. Key Raw Materials

Table 143. Raw Materials Key Suppliers

Table 144. Photonic IC Distributors List

Table 145. Photonic IC Customers List

Table 146. Research Programs/Design for This Report

Table 147. Authors List of This Report

Table 148. Secondary Sources

Table 149. Primary Sources

## List Of Figures

### LIST OF FIGURES

- Figure 1. Photonic IC Product Picture
- Figure 2. Global Photonic IC Production Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Photonic IC Production Value (2019-2030) & (US\$ Million)
- Figure 4. Global Photonic IC Production Capacity (2019-2030) & (K Units)
- Figure 5. Global Photonic IC Production (2019-2030) & (K Units)
- Figure 6. Global Photonic IC Average Price (USD/Unit) & (2019-2030)
- Figure 7. Global Top 5 and 10 Photonic IC Players Market Share by Production Value in 2023
- Figure 8. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 9. Monolithic Integration Picture
- Figure 10. Hybrid Integration Picture
- Figure 11. Module Integration Picture
- Figure 12. Global Photonic IC Production by Type (2019 VS 2023 VS 2030) & (K Units)
- Figure 13. Global Photonic IC Production Market Share 2019 VS 2023 VS 2030
- Figure 14. Global Photonic IC Production Market Share by Type (2019-2030)
- Figure 15. Global Photonic IC Production Value by Type (2019 VS 2023 VS 2030) & (K Units)
- Figure 16. Global Photonic IC Production Value Share 2019 VS 2023 VS 2030
- Figure 17. Global Photonic IC Production Value Share by Type (2019-2030)
- Figure 18. Optical Communication Picture
- Figure 19. Sensing Picture
- Figure 20. Biophotonics Picture
- Figure 21. Others Picture
- Figure 22. Global Photonic IC Production by Application (2019 VS 2023 VS 2030) & (K Units)
- Figure 23. Global Photonic IC Production Market Share 2019 VS 2023 VS 2030
- Figure 24. Global Photonic IC Production Market Share by Application (2019-2030)
- Figure 25. Global Photonic IC Production Value by Application (2019 VS 2023 VS 2030) & (K Units)
- Figure 26. Global Photonic IC Production Value Share 2019 VS 2023 VS 2030
- Figure 27. Global Photonic IC Production Value Share by Application (2019-2030)
- Figure 28. Global Photonic IC Production by Region: 2019 VS 2023 VS 2030 (K Units)
- Figure 29. Global Photonic IC Production Market Share by Region: 2019 VS 2023 VS 2030
- Figure 30. Global Photonic IC Production Value Comparison by Region: 2019 VS 2023

VS 2030 (US\$ Million)

Figure 31. Global Photonic IC Production Value Share by Region: 2019 VS 2023 VS 2030

Figure 32. North America Photonic IC Production Value (2019-2030) & (US\$ Million)

Figure 33. Europe Photonic IC Production Value (2019-2030) & (US\$ Million)

Figure 34. Asia-Pacific Photonic IC Production Value (2019-2030) & (US\$ Million)

Figure 35. Latin America Photonic IC Production Value (2019-2030) & (US\$ Million)

Figure 36. Middle East & Africa Photonic IC Production Value (2019-2030) & (US\$ Million)

Figure 37. North America Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 38. North America Photonic IC Consumption Market Share by Country (2019-2030)

Figure 39. U.S. Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 40. Canada Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 41. Europe Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 42. Europe Photonic IC Consumption Market Share by Country (2019-2030)

Figure 43. Germany Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 44. France Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 45. U.K. Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 46. Italy Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 47. Netherlands Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 48. Asia Pacific Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 49. Asia Pacific Photonic IC Consumption Market Share by Country (2019-2030)

Figure 50. China Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 51. Japan Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 52. South Korea Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 53. Southeast Asia Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 54. India Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 55. Australia Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 56. LAMEA Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 57. LAMEA Photonic IC Consumption Market Share by Country (2019-2030)

Figure 58. Mexico Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

Figure 59. Brazil Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)

- Figure 60. Turkey Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 61. GCC Countries Photonic IC Consumption and Growth Rate (2019-2030) & (K Units)
- Figure 62. Photonic IC Value Chain
- Figure 63. Manufacturing Cost Structure
- Figure 64. Photonic IC Production Mode & Process
- Figure 65. Direct Comparison with Distribution Share
- Figure 66. Distributors Profiles
- Figure 67. Years Considered
- Figure 68. Research Process
- Figure 69. Key Executives Interviewed

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